EXHIBITION

OF THE

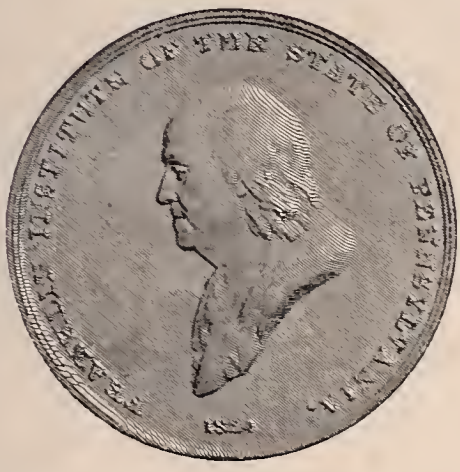
FRANKLIN INSTITUTE

OF THE

STATE OF PENNSYLVANIA,

FOR THE

PROMOTION OF THE MECHANIC ARTS.



Rules and Regulations

WITH

Address of the Board of Managers.

1874.

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EXHIBITION

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ADDRESS

OF THE

BOARD OF MANAGERS

WITH

RULES AND REGULATIONS.

1874.

Officers of the Franklin Institute
FOR 1874.

PRESIDENT,

COLEMAN SELLERS.

VICE-PRESIDENTS,

BLOOMFIELD H. MOORE, HENRY G. MORRIS,
ROBERT E. ROGERS, M. D.

SECRETARY,

WILLIAM H. WAHL, Ph. D.

TREASURER,

FREDERICK FRALEY.

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WASHINGTON JONES,
PLINY E. CHASE,
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JOSEPH M. WILSON,
WILLIAM P. TATHAM,
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THEODORE D. RAND,
GEORGE F. BARKER,
WILLIAM SELLERS,
J. VAUGHAN MERRICK,
HENRY CARTWRIGHT,
HENRY W. BARTOL,
JOHN W. NYSTROM,
THEODORE BERGNER,
HECTOR ORR,
B. C. TILGHMAN,
WM. BARNET LeVAN,
SAMUEL SARTAIN,
CHARLES BULLOCK,
ENOCH LEWIS,
WILLIAM HELM,
F. B. MILES,
EDWIN J. HOUSTON,
J. E. MITCHELL.

AUDITORS,

JAMES H. CRESSON, SAMUEL MASON,
WILLIAM BIDDLE.

ACTUARY,

D. SHEPHERD HOLMAN.

COMMITTEE ON EXHIBITION.

W. P. TATHAM, Chairman.

CHARLES S. CLOSE, FREDERICK FRALEY,
B. C. TILGHMAN, J. E. MITCHELL.

This Committee, by a vote of the Institute, is to be enlarged to one hundred, including all the members of the Board of Managers. The appointments are not yet completed. The Committees on the several Classes of Exhibits will be appointed from the Committee of One Hundred, when completed.

STANDING SUB-COMMITTEES.

FINANCE.

W. P. TATHAM, Chairman.

JOHN BAIRD, COLEMAN SELLERS,
J. VAUGHAN MERRICK, FREDERICK FRALEY.

RULES AND REGULATIONS.

HENRY CARTWRIGHT, Chairman.

THEODORE BERGNER, JAMES E. MITCHELL,
THOMAS SHAW, ALEXANDER PURVES.

AWARDS.

COLEMAN SELLERS, Chairman.

S. S. WHITE, FREDERICK GRAFF,
HENRY G. MORRIS, ENOCH LEWIS.

BUILDINGS AND MACHINERY.

CHARLES S. CLOSE, Chairman.

WASHINGTON JONES, ROBERT E. ROGERS, M. D.,
JOSEPH M. WILSON, FREDERICK GRAFF.

SPACE.

CHARLES BULLOCK, Chairman.

FREDERICK GRAFF, ROBERT GRIMSHAW,
JOSEPH M. WILSON, WILLIAM C. EWING.

CLASSIFICATION.

PLINY E. CHASE, Chairman.

J. B. KNIGHT, ALEXANDER WILCOCKS, M. D.

TRANSPORTATION.

ENOCH LEWIS, Chairman.

WILLIAM C. EWING, CHARLES FIELD.

CORRESPONDENCE AND PUBLICATION.

PLINY E. CHASE, Chairman.

SAMUEL SARTAIN, EDWIN J. HOUSTON,
GEORGE F. BARKER, J. B. KNIGHT.

FINE ARTS.

SAMUEL SARTAIN, Chairman.

ALEXANDER WILCOCKS, M. D., J. C. BROWNE,
GEO. W. CONARROE.

ADDRESS

OF THE

BOARD OF MANAGERS.

To Manufacturers and Mechanics of the United States:

In inviting Contributions to an Exhibition which is intended to celebrate the 50th year of the Franklin Institute, the Managers naturally recall the language used by the founders of the Society in their first quarterly report, made to the Institute upon the 15th of April, 1824.

Announcing the intention of holding the first Exhibition of the kind in this country, (which was actually held in the Month of October, in the year 1824,) they say:

"An object of equal, if not greater importance * * * * * "is that of public Exhibitions to which all the products of national "industry may be sent; the effect and consequence of such Exhibi- "tions will necessarily be to extend the reputation of the Institute, to "stimulate the zeal of the members, and to excite a proper degree of "emulation and of justifiable rivalry among the numberless manufac- "turers and mechanics of this city. It is confidently believed that "when the products of our industry are collected from the various "workshops now dispersed throughout the city and state, and exhibited "together, they will form a collection calculated to excite a gratifying "sense of pride in the bosom of every well wisher to the prosperity "of our manufactures, and an encouraging hope that, under proper "regulations, we may soon compete with foreigners in the manu- "facture of all useful articles."

These views and hopes have been justified by the success of their pioneer enterprise and of those which followed it, as well as by the general practice now existing, of Annual Exhibitions elsewhere, but more than all, by a comparison of the state of the Arts, fifty years ago, with their condition now.

This comparison may, we trust, be facilitated and illustrated by our intended Exhibition. It cannot be denied that much of the general progress of the Mechanic Arts may fairly be attributed to such exposition, and prosperity in many individual cases may easily be traced to the public recognition which our exhibitions have invited. On the other hand, the benefits to the community have been equally great, and all the motives which were enumerated by our first Board of Managers are fully in operation to-day.

We hope, therefore, when self interest and the desire for the public good both incite us to one line of action, that the parties to whom we especially appeal, may unite to make our proposed display worthy of the occasion.

In the earlier Exhibitions held by the Franklin Institute, a list of premiums offered was published beforehand, but experience proved that many of the Medals were neither earned nor awarded, while the acknowledged excellence or novelty of other articles exhibited, compelled the award of Medals which had not been proposed. The plan was therefore definitely abandoned in 1838, and Medals may now be achieved for any product of Inventive Genius, or by excellence of Execution.

The Scott Legacy Premium, consisting of a Bronze Medal, with the motto "To the most worthy." together with the sum of $20, is vested in the City of Philadelphia by the provisions of the Will of John Scott of Edinburgh, made in the year 1816, and the City has confided the trust of awarding the premium to the Franklin Institute. It is a premium of peculiar honour, to be distributed among ingenious men and women who make useful inventions.

The Elliott Cresson Gold Medal, an honour which has rarely been awarded, is also entrusted, by the provisions of his Will, to the

Franklin Institute. It may be awarded for some discovery in the Arts and Sciences, or for the invention or improvement of some useful machine, or for some new process or combination of materials in manufactures, or for ingenuity, skill or perfection in workmanship.

Both of these premiums are awarded by the Board of Managers upon the recommendation of the Committee of Science and the Arts.

In order more readily to find experts qualified to act as judges of each Class of articles exhibited for competition, the Classification will be made according to the position each article occupies in trade, without regard to any rule based upon the use of the article.

The Rules and Regulations, adopted by the Board of Managers to govern the Exhibition, and all other necessary information, are hereinafter contained.

By order of the Board of Managers,

D. SHEPHERD HOLMAN,
Actuary.

Philadelphia, May 13, 1874.

Franklin Institute Exhibition,

1874.

RULES AND REGULATIONS.

1.—The building, on Market Street between Thirteenth and Juniper Streets, will be opened for the reception of all articles and goods intended for exhibition, on Monday, September 14th, and remain open for that purpose, until Saturday, October 3d. On Tuesday, October 6th, the Exhibition will be formally opened to the public, at 12 o'clock, M., and continue daily open (Sunday excepted) from 10 A. M. to 10 P. M., until Saturday, October 31st.

2. Each exhibitor will be required to pay Five dollars for each and every entry for competition, at the time the entry is made, and no more than one premium shall be awarded for articles contained in same entry; a *season ticket* shall be furnished to each such exhibitor, *which shall not be transferable.* Not more than one exhibitor's ticket shall be furnished to any one firm or corporation for each entry. Exhibitors may procure tickets for persons necessary for the care and operation of their articles, free of charge, but to be forfeited if used improperly. Articles intended for display only, may, at the discretion of the Committee, be entered without fee; but such entry will confer no privileges upon the exhibitor.

3. All applications for space, to be made before October 3d, on printed blank forms, to be furnished by the Committee; and they will be considered and the space allotted, in the order of their receipt.

Space allotted to applicants and not occupied by October 3d, may be assigned to other exhibitors. Whenever the articles will admit, contributors are requested to exhibit them in glass cases.

4. All articles delivered at the building shall be reported to the Committee, who will direct their location, and assign them the proper space. Any articles shipped to the Exhibition by rail or otherwise, must have freight and charges prepaid, and invoice and bill of lading mailed to "Committee on Exhibition."

5. Exhibitors will be furnished by the Entry Clerk with duplicate cards, describing each article entered for exhibition; these will be countersigned on the receipt of the articles into the Exhibition. One of these cards shall be conspicuously attached to the article which it describes, and the other must be retained by the exhibitor, and be presented as his order for the delivery of the article specified, at the close of the Exhibition.

6. The Committee reserve the right to exclude from the premises all articles of a dangerous or offensive character.

7. No articles can be removed from the building, during the time of Exhibition, unless by consent of the Committee.

8. A police force will be in attendance upon the premises during the Exhibition, and watchmen at night; but all articles on exhibition will be at the risk of the owner.

9. There will be two lines of shafting of $2\frac{7}{16}$ inches diameter, one line driven at a speed of 120, and one at 240 revolutions per minute, from which power will be furnished, without charge, for machinery in operation. To secure entire uniformity of motion, all driving pulleys on the line shaft will be supplied by the Institute to the exhibitors, at the lowest trade price. Exhibitors will furnish their own counter-shafting and belting, all plainly marked with their names.

10. The Judges shall be appointed by the Board of Managers, and shall be men of acknowledged integrity, skill, and experience in the class of articles assigned to them; and no Judge shall serve on any class, in which he may be a competing exhibitor, or otherwise directly interested. The mornings of each day, until

fifteen minutes before the time of opening the Exhibition, shall be appropriated to the Judges, who shall be attended only by such persons as they may invite to be present.

11. All articles entered for competition will be carefully examined by the Judges, and Premiums will be awarded on such articles as they shall declare worthy—their decisions being based on intrinsic merit, and not because the article happens to be the best exhibited in any particular class.

12. The Premiums to be awarded shall be of three classes:

1st. The Silver Medal of the Franklin Institute, with a Diploma or Certificate setting forth the peculiar merits of the article exhibited.

2d. The Bronze Medal of the Franklin Institute with a like Diploma.

3d. A Diploma or Certificate of Honorable Mention.

Cases of special merit may be referred by the Judges to the Committee on "Science and the Arts," with a recommendation for the award of the Scott's Legacy Premium, or of the Elliott Cresson Gold Medal.—(See page 6.)

13. Exhibitors are desired to state in writing to the Committee, the peculiar merits claimed for the articles exhibited by them for competition.

14. Signs will not be allowed of greater size than 300 square inches, nor shall such signs be elevated above the goods.

The distribution of circulars and cards or samples about the building will not be permitted; exhibitors can distribute only from their own stand.

INFORMATION.

THE EXHIBITION BUILDING.

The Pennsylvania Railroad Company being about to vacate their Depot on Market Street, between Thirteenth and Juniper Streets, has, with characteristic liberality, placed the building at the disposal of the Committee on Exhibition.

This building contains more than two acres of available space on the ground-floor, besides a large cellar for Storage, and a four story wing at the corner of Thirteenth Street, for Offices, and is therefore by far the largest Exhibition building ever had in Philadelphia.

TRANSPORTATION.

The following Railroad and Steamship Companies have agreed to return free, *over their own lines*, articles which they have carried, intended for the Exhibition, upon which freight has been paid, and which remain unsold.

The paid Freight-bills, countersigned by the proper officer of the Institute, will entitle exhibitors to this privilege.

Pennsylvania Railroad Company.		
Philadelphia, Wilmington and Baltimore Railroad Company.		
Philadelphia and Reading Railroad Company.		
North Pennsylvania	"	"
Lehigh Valley	"	"
Phila. and Baltimore Central	"	"
West Chester and Philad'a	"	"
West Jersey	"	"
Camden and Atlantic	"	"

Clyde's Steam Lines—To Boston, Providence, New York, Richmond, Norfolk, Charleston and Washington.

Philadelphia and Southern Mail Steamship Co.

Baltimore and Philadelphia Steamboat Co.

Swiftsure Transportation Co.—To New York and Hartford.

Boston and Philadelphia Steamship Line.

Philadelphia and Providence Steamship Line.

Lorillard's New York Steamship Line.

The last three Steamship Lines will make a charge for the handling of Heavy Machinery on the return.

INSURANCE.

Parties desiring to insure against Loss by Fire during this Exhibition, may do so upon a general policy issued to the Franklin Institute, by recording the amount and paying the premium.

SPECIAL TRIALS OF ENGINES AND BOILERS.

In addition to the examination of Stationary Steam Engines and Boilers under the regular rules, covering *all* the qualities comprised in the best machines, it is proposed to make a *special* trial of the evaporative power of Steam Boilers, and of the economy of Boilers with Engines attached, known to the trade as Portable Engines.

These trials to be conducted by practical and scientific experts, with Indicator and Dynamometer and other approved apparatus.

The arrangements for the trials are not yet complete and will mainly depend on the number of the machines that can be brought into competition.

All persons interested in such trials are requested to communicate with the Committee, who will furnish full information as soon as the conditions are arranged.

All communications are to be addressed to the

COMMITTEE ON EXHIBITION,

Franklin Institute,

Philadelphia.

Franklin Institute.

TERMS AND PRIVILEGES OF MEMBERSHIP.

EACH MEMBER, AND ADULT HOLDER OF SECOND CLASS STOCK, when not in arrears for Dues, is entitled to attend the meetings of the Institute, the use of the Library and Reading-Room, and to Tickets for himself and a lady to the Lectures.

CONTRIBUTING MEMBERS pay Five Dollars each year. The payment of Fifty Dollars in any one year secures Life-Membership, without annual dues.

SHARES OF STOCK Ten Dollars.

SECOND CLASS STOCK has an annual tax of Three Dollars per share, entitling the holder of one Share to the privileges of Membership.

THE HOLDER OF TEN OR MORE SHARES of First Class Stock is entitled to all the privileges of membership, without payment of annual dues.

MINOR CHILDREN, WARDS AND APPRENTICES of members not in arrears, by payment of Two Dollars, have use of Library and Reading-Room and admission to Lectures, or Lectures alone for One Dollar.

MINORS, holding a share of Second-class Stock, by paying One Dollar and Fifty Cents per year, have use of Library and Reading-Room, and admission to Lectures.

THE JOURNAL OF THE FRANKLIN INSTITUTE, Published Monthly, subscription Five Dollars per year, in advance. Members and Stockholders, not in arrears, can have one copy at Three Dollars per year, in advance.